

Govind Brahmanyapura

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Education

Grinnell College

B.A. in Computer Science

Grinnell, Iowa

Grad: May 2021

Skills

Languages: TypeScript, JavaScript, Python

Frontend: React, Next.js, React Native, HTML, CSS, TailwindCSS, Redux

Backend/Misc.: Node.js, PostgreSQL, Redis, Apache Kafka, Apache Flink, Cosmos, Jest, Kubernetes, CI/CD

Experience

Software Engineer - Ads

San Francisco, CA

Gopuff | TypeScript, Node, React, Next.js, Postgres, Kafka, React Native, K8s

Feb 2022 - Present

- Led the engineering design and development of a high-impact in-house ads platform using Next.js, React, PostgreSQL, and Redis, enabling a projected **5-15% annual ad revenue increase**
- Spearheaded the development and launch of post-order ads across web and mobile platforms, coupled with A/B testing strategies to optimize targeting; set to generate **\$5mil+ in ad revenue** in 2023.
- Owned the AdTech Events Service, achieving **99.9999% success rate** by driving the design and implementation of an asynchronous request flow, event-delivery retry system, and thorough documentation, ensuring service reliability.
- Designed, built, and deployed a highly performant data validation layer (**<5 millisecond latency**) using Joi to improve quality of server-side advertising event data flowing into Gopuff's Ad Events Service
- Implemented deferred deep linking in the Gopuff app, contributing to increased user acquisition, and projecting a revenue growth of **\$2.5 million** in advertising and **\$2.7 million** in retail orders (12 mo.)
- Pioneered the migration to a Kafka and Avro schema eventing system, boosting data processing efficiency and empowering real-time ad analytics.
- Introduced Apache Flink into Gopuff Ad's tech stack, bolstering the ads team's real-time stream processing and reporting capabilities, enhancing analytical insights.

Associate Software Developer

Des Moines, IA

Wellmark Blue Cross Blue Shield | TypeScript, Node, Angular, Lambda, Jest

June 2021 - Feb 2022

- Built and maintained RESTful APIs using TDD, and manage CI/CD pipelines in Azure DevOps
- Wrote Node scripts in TypeScript to explore optimal batch data-load config for Microsoft Dynamics CRM

Full Stack Software Engineer

Remote

College Kickstart | JavaScript, PHP, MySQL, PdfMake, Linux

Aug 2020 - May 2021

- Developed client-side PDF generation features for users to build personalized reports for 1000+ colleges
- Wrote MySQL stored procedures to optimize DB reads and handle customer support requests

Projects

Quiziom.com | AI-powered Quiz-maker

September 2023

TypeScript | Next 13 | React | OpenAI API | PostgreSQL | Prisma | TailwindCSS | Server Components | Vercel

- Developed a versatile web application to enable users to build AI-generated quizzes. Utilized OpenAI's GPT-4 API to auto-generate questions based on provided text.
- Leveraged Next.js 13 and React to design a highly responsive and dynamic UI. Utilized Server Components for efficient rendering and TailwindCSS for sleek styling.
- Implemented a server-side model interfacing with OpenAI API for prompt preprocessing, real-time response validation, and streaming using OpenAIStream utility.
- Integrated Prisma as an ORM to connect the application with a PostgreSQL database, enabling robust data storage and retrieval functionalities.
- Utilized Vercel for continuous integration and deployment, automating the build and deploy process.

Open Source Work — React | JavaScript | HTML | CSS

- **react-widgets (50k installs/wk):** Fixed bug in which input component icon buttons would overflow out of visibility in certain browsers
- **react-dropdown-select (20k installs/wk):** Implemented feature which brings selected item into view within single-select dropdown when it is opened + Fixed long-standing bug in which single-select dropdown search query would not reset upon item selection